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    ANSWER 1 OF 6 MEDLINE
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    The influence of GAP promoter variants on hirudin production,
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cerevisiae.

AU Janes M; Meyhack B; Zimmermann W; Hinnen A

average plasmid copy number and cell growth in Saccharomyces

Ciba-Geigy AG, Biotechnology Department, Basel, Switzerland.. CS CURRENT GENETICS, (1990 Aug) 18 (2) 97-103. so Journal code: CUG. ISSN: 0172-8083. CY United States Journal; Article; (JOURNAL ARTICLE) DT LΑ English Priority Journals FS 199102 EΜ The yeast Saccharomyces cerevisiae has been engineered to AB synthesize and secrete desulfato-hirudin (hirudin), a thrombin inhibitor from the leech Hirudo medicinalis. The synthetic gene coding for hirudin was expressed constitutively under the control of four size-variants of the **yeast** glyceraldehyde-3-phosphate dehydrogenase promoter (GAP) and cloned into a 2 mu based multicopy yeast vector. The constitutive action of the four promoter variants was confirmed by demonstrating that the expression and secretion of hirudin is growth-related. The different efficiencies of the promoter variants not only affected hirudin expression but also led to changes in several cellular parameters, such as cell growth, average plasmid copy number and plasmid stability. The observed changes show that yeast cells establish a specific equilibrium for each promoter variant. We conclude, that the adjustment of cellular parameters in response to the expression levels of a heterologous protein is regulated by two counteracting selective forces: (1) the need for complementation of the auxotrophic host marker by the plasmid-encoded selection gene which, in the case of dLEU2, requires several plasmid copies; and (2) a selective advantage of cells with a lower copy number enabling them to escape the burden of heterologous protein production. ANSWER 2 OF 6 MEDLINE L7 90028909 MEDLINE ΑN DN 90028909 ΤI Heterologous gene expression in yeast. ΑU Hinnen A; Meyhack B; Heim J SO BIOTECHNOLOGY, (1989) 13 193-213. Ref: 63 Journal code: BIT. ISSN: 0740-7378. CY United States Journal; Article; (JOURNAL ARTICLE) DT General Review; (REVIEW) (REVIEW, TUTORIAL) LA English FS Priority Journals EΜ 199002 ANSWER 3 OF 6 MEDLINE L7 AN 89289703 MEDLINE DN 89289703 TI Functional analysis of the signal-sequence processing site of yeast acid phosphatase. ΑU Monod M; Haquenauer-Tsapis R; Rauseo-Koeniq I; Hinnen A CS Service de Dermatologie, CHUV, Lausanne. so EUROPEAN JOURNAL OF BIOCHEMISTRY, (1989 Jun 15) 182 (2) 213-21. Journal code: EMZ. ISSN: 0014-2956. GERMANY, WEST: Germany, Federal Republic of CY DΤ Journal; Article; (JOURNAL ARTICLE) LА English FS Priority Journals; Cancer Journals

A systematic study of the signal peptidase cleavage site of the main

EM AB

cell-wall-repressible Saccharomyces cerevisiae acid phosphatase encoded by the PHO5 gene is presented. The last amino acid of the signal sequence, the chromosomally encoded alanine of the wild-type gene, was changed by any of 19 other amino acids in the chromosomal DNA by using in vitro mutagenesis in Escherichia coli and the technique of gene replacement. Processing and secretion are normal when the amino acid at this position is a small neutral amino acid, i.e. alanine, glycine, cysteine, serine or threonine. Processing glycosylation, and secretion of regulated acid phosphatase are distinctly affected with other amino acid substitutions and core-glycosylated protein accumulates in the cell. Surprisingly, PHO5 protein is still secreted to the cell wall and into the growth medium but at a lower rate and without cleavage of the signal sequence. The same features are exhibited by a mutated acid phosphatase with a deletion of four amino acids at the end of the signal peptide (-7 to -4 relative to the processing site) thus preserving the important -3 to -1 region.

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ANSWER 4 OF 6 MEDLINE
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     Vectors for cloning in yeast.
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     Hinnen A; Meyhack B
     CURRENT TOPICS IN MICROBIOLOGY AND IMMUNOLOGY, (1982) 96 101-17.
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     Ref: 64
     Journal code: DWQ. ISSN: 0070-217X.
   GERMANY, WEST: Germany, Federal Republic of
     Journal; Article; (JOURNAL ARTICLE)
     General Review; (REVIEW)
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     English
     198206
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- L7 ANSWER 5 OF 6 BIOSIS COPYRIGHT 1998 BIOSIS
- AN 90:494058 BIOSIS
- DN BA90:122404
- TI THE INFLUENCE OF GAP PROMOTER VARIANTS ON HIRUDIN PRODUCTION AVERAGE PLASMID COPY NUMBER AND CELL GROWTH IN SACCHAROMYCES-CEREVISIAE.
- AU JANES M; MEYHACK B; ZIMMERMANN W; HINNEN A
- CS CIBA-GEIGY AG, BIOTECHNOL. DEP., K-681.1.44, P.O. BOX, CH-4002 BASEL, SWITZERLAND.
- SO CURR GENET 18 (2). 1990. 97-104. CODEN: CUGED5 ISSN: 0172-8083
- LA English
- AB The yeast Saccharomyces cerevisiae has been engineered to synthesize and secrete desulfato-hirudin (hirudin), a thrombin inhibitor from the leech Hirudo medicinalis. The synthetic gene coding for hirudin was expressed constitutively under the control of four size-variants of the yeast glyceraldehyde-3-phosphate dehydrogenase promoter (GAP) and cloned into a 2 .mu. based multicopy yeast yector. The constitutive action of the four

promoter variants was confirmed by demonstrating that the expression and secretion of hirudin is growth-related. The different efficiencies of the promoter variants not only affected hirudin expression but also led to changes in several cellular parameters, such as cell growth, average plasmid copy number and plasmid stability. The observed changes show that **yeast** cells establish a specific equilibrium for each promoter variant. We conclude, that the adjustment of cellular parameters in response to the expression levels of a heterologous protein is regulated by two counteracting selective forces: (1) the need for complementation of the auxotrophic host marker by the plasmid-encoded selection gene

which, in the case of dLEU2, requires several plasmid copies; and (2) a selective advantage of cells with a lower copy number enabling them to escape the burden of heterologous protein production.

- L7 ANSWER 6 OF 6 BIOSIS COPYRIGHT 1998 BIOSIS
- AN 82:130472 BIOSIS
- DN BR23:60464

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- TI **VECTORS** FOR CLONING IN **YEAST** SACCHAROMYCES-CEREVISIAE.
- AU HINNEN A; MEYHACK B
- CS FRIEDRICH MIESCHER-INST., P. O. BOX 273, CH-4002 BASEL, SWITZERLAND.
- SO HOFSCHNEIDER, P. H. AND W. GOEBEL (ED.). CURRENT TOPICS IN MICROBIOLOGY AND IMMUNOLOGY, VOL. 96. GENE CLONING IN ORGANISMS OTHER THAN E.COLI. VII+259P. SPRINGER-VERLAG: BERLIN, WEST GERMANY; NEW YORK, N.Y., USA. ILLUS. 0 (0). 1982. P101-118. CODEN: CTMIA3 ISBN: 3-540-11117-4; 0-387-11117-4 ISSN: 0070-217X
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